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<p>(21) International Application Number: PCT/GB98/03507 (22) International Filing Date: 24 November 1998 (24.11.98) (30) Priority Data: 9724783.7 24 November 1997 (24.11.97) GB (71) Applicant (for all designated States except US): UNIVERSITY OF BRISTOL [GB/GB]; Senate House, Tyndall Avenue, Bristol BS8 1TH (GB). (72) Inventor; and (75) Inventor/Applicant (for US only): NAPIER, Johnathan, A. [GB/GB]; I ACR-Long Ashton Research Station, Dept. of Agriculture Sciences, University of Bristol, Long Ashton, Bristol BS41 9AF (GB). (74) Agents: DEAN, John, Paul et al.; Withers & Rogers, 4 Dyer's Buildings, Holborn, London EC1N 2QP (GB).</p>		<p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p>Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p>
<p>(54) Title: DESATURASE GENES AND THEIR USE</p> <p>(57) Abstract</p> <p>cDNA encoding <i>C. elegans</i> Δ^6 desaturase has been cloned and sequenced, and the Δ^6 desaturase amino acid sequence has been determined. The <i>C. elegans</i> Δ^6 desaturase has a surprisingly low level of sequence identity with the known borage Δ^6 desaturase. The <i>C. elegans</i> Δ^6 desaturase has been expressed in yeast. It and other desaturases can be cloned in host organisms (e.g. plants) and can be used to provide useful metabolites.</p>		